10/0813,814 03/02/2006 11/04/2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-19. (Cancelled)

(Currently amended) A corripound of formula (IIC) 20.

or a salt, ester or amide thereof,

where X is NH;

Z is C(O)-or-S(O)2;

R⁸⁴ is optionally substituted aryl selected from phenyl optionally substituted with up to 5 groups selected from nitro, halo, carboxy, cyano, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C_{1-4} alkylsulphonyl, trifluoromethyl, ar C_{1-10} alkyl, or ar C_{1-10} alkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, nitro or C₁₄alkyl; optionally substituted C₃₋₈cycloal cyl selected from optionally substituted cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl any of which may be optionally substituted with nitro, halo, carboxy, cyano, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, $C_{1\rightarrow a}$ alkylsulphonyl, trifluoromethyl, ar C_{1-10} alkyl, ar C_{1-10} alkyloxy, or aryl wherein aryl rings in the substituents may themselves be substituted with halo, nitro or C₁₄alkyl; optionally substituted arC₁₋₁₀alkyl selected from optionally substituted benzyl, phenylethyl or phenylpropyl, wherein the phenyl ring is optionally substituted with up to 5 groups selected from nitro, halo, carboxy, cyano, C_{1-4} ilkyl, C_{1-4} alkoxy, C_{1-4} alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C_{1-4} alkylsulphonyl, trifluoromethyl, ar C_{1-10} alkyl, or ar C_{1-10} alkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, carboxy, trifluoromethyl, nitro or C₁₋₄alkyl;

Page 2 of 13

10/088,814 03/02/2006 11/04/2005

optionally substituted heterocyclyl selected from pyridyl, pyrazine, pyrimidinyl, pyrrolidino, furyl, tetrahydrofuryl, oxazolyl, morpholino, thiadiazole, indolyl, quinolinyl, isoquinolinyl, pyrazolyl, methylenedioxybenzyl, thiophene and benzothiophene, all of which may be optionally substituted with one or more groups selected from nitro, halo, carboxy, cyano, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C_{1-4} alkylsulphonyl, trifluoromethyl, arC₁₋₁₀alkyl, or arC₁₋₁₀alkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, carboxy, trifluoromethyl, nitro or C_{1-4} alkyl; optionally substituted C_{1-10} alkyl where optional substituents for C_{1-10} alkyl include amino, mono- or di-C₁₋₄alkylamino, hydroxy, C₁₋₄alkoxy, heterocyclyl selected from thiophene, tetrahydrothiophene-1,1-dioxide, pyrrolidino, morpholino, furyl and tetrahydrofuryl, C_{1-4} alkoxy, acetamido, aryloxy, alkylC₁-₄thio, aroyl where the aryl ring may itself be substituted with halo, carboxy, trifluoromethyl, nitro, carboxy or trifluoromethyl, C₃₋₁₀cycloalkyl or C₃₋₁₀cycloalkenyl; or optionally substituted C_{2-10} alkenyl or C_{2-10} alkynyl where optional substituents for C_{2-10} alkenyl or C_{2-10} alkynyl include nitro, halo, carboxy, cyano, C_{1-4} alkyl, C_{1-4} alkoxy, C_{1-4} alkylthio, acetoxy, acetamido, hydroxy, aminosulphonyl, C1-4alkylsulphonyl, trifluoromethyl, arC1-10alkyl, or arC_{1-10} alkyloxy wherein aryl rings in the substituents may themselves be substituted with halo, carboxy, trifluoromethyl, nitro or C₁₋₄alkyl; or such groups are substituted by aryl, where the aryl ring may itself be substituted wit'n halo, nitro, carboxy, trifluoromethyl; R^7 and R^8 are independently selected from hydrogen, halo, $C_{1 \rightarrow a}$ alkyl, $C_{1 \rightarrow a}$ alkoxy, C_{1-4} alkoxymethyl, di $(C_{1-4}$ alkoxy)rnethyl, C_{1-4} alkanoyl, trifluoromethyl, cyano, amino, C_{2-6} alkenyl, C_{2-6} alkynyl, a phenyl group, a b ϵ :nzyl group or a 5-6-membered heterocyclic group with 1-3 heteroatoms, selected independently from O, S and N, which heterocyclic group may be aromatic or non-aromatic and π ay be saturated, and linked via a ring carbon or nitrogen atom, or unsaturated, and linked via a ring carbon atom, and which phenyl, benzyl or heterocyclic group may bear on one or more ring carbon atoms up to 5 substituents selected from hydroxy, halogeno, C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} alkanoyloxy, trifluoromethyl, cyano, amino, nitro, C_{24} alkanoyl, C_{14} alkanoylaminc, C_{14} alkoxycarbonyl, C_{14} alkylsulphanyl, C_{14} alkylsulphinyl, C_{1-4} alkylsulphonyl, carbamoyl, N- C_{1-4} alkylcarbamoyl, N,N-di(C_{1-4} alkyl)carbamoyl, aminosulphonyl, N-C₁-₄alkylam nosulphonyl, N,N-di(C₁-₄alkyl)aminosulphonyl, C₁₄alkylsulphonylamino, and a saturated heterocyclic group selected from morpholino, thiomorpholino, pyrrolidinyl, piperazinyl, piperidinyl, imidazolidinyl and pyrazolidinyl, which saturated heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} alkanoyloxy, trifluoromethyl, cyano, amino, nitro and C_{1-4} alkoxycarbonyl, and

10/088,814 03/02/2006 11/04/2005

MAR-02-2006 THU 02:17 PM astra zeneca r&d boston

where R¹, R², R³ and R⁴ are independently selected from halo, cyano, nitro, trifluoromethyl, C_{1-salkyl, -NR¹³R⁴⁴, wherein R¹³-and R¹⁴, which may be the same or different, each represents} hydrogen or C₄₋₃alkyl, or -X¹R¹⁵, wherein X¹ represents a direct bond, -O-, -CH₂-, -OCO-, carbonyl, -S-, -SO-, -SO₂-, -NR¹⁶C:O-, -CONR¹⁶-, -SO₂NR¹⁶-, -NR¹⁷SO₂- or -NR¹⁸-, wherein R¹⁸, R^{17} and R^{18} each independently represents hydrogen, $\mathsf{C}_{1\text{-}3}$ alkyl or $\mathsf{C}_{1\text{-}3}$ alkoxy $\mathsf{C}_{2\text{-}3}$ alkyl, and R^{15} is selected from one of the following groups:

- 1') hydrogen or C_{1-\$}alkyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, fluoro or amino;
- 2') C₁₋₅alkylX²COR¹⁹ wherein X² represents -O- or -NR²⁰-, in which R²⁰ represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl, and R^{19} represents C_{1-3} alkyl, $-NR^{21}R^{22}$ or $-OR^{23}$, wherein R^{21} , R^{22} and R^{23} which may be the same or different each represents hydrogen, $C_{1\text{--}3}$ alkyl or C1-3alkoxyC2-3alkyl;
- 3') $C_{1.5}$ alkyl X^3R^{24} wherein X^3 represents -O-, -S-, -SO-, -SO₂-, -OCO-, -NR²⁵CO-, -CONR²⁵-, -SO₂NR²⁷-, -NR²⁸SO₂- or -NR²⁹-, wherein R²⁵, R²⁶, R²⁷, R²⁸ and R²⁹ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl, and R²⁴ represents hydrogen, C₁₋₃alkyl, cyclopentyl, cyclohexyl or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, $\mbox{3}$ and N, which $\mbox{C}_{1\text{-3}}$ alkyl group may bear 1 or 2 substituents selected from oxo, hydroxy, halc geno and C_{1-4} alkoxy and which cyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C₁₋₄alkyl, C₁₋₄hydroxyalkyl and C₁₋₄alkoxy; 4') C₁₋₅alkylX⁴C₁₋₅alkylX⁵R³⁰ wherein X⁴ and X⁵ which may be the same or different are each -O-, -S-, -SO-, -SO₂-, -NR³¹CO-, -CC¹NR³²-, -SO₂NR³³-, -NR³⁴SO₂- or -NR³⁵-, wherein R³¹, R³², R³³, R^{34} and R^{35} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl, and R^{30} represents hydrogen or C_{1-s}alkyl;
- 5') R³⁶ wherein R³⁶ is a 5-6-mernbered saturated heterocyclic group, linked via carbon or nitrogen, with 1-2 heteroatoms, selected independently from O, S and N, which heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C₁₄alkyl, C_{14} hydroxyalkyl, C_{14} alkoxy, C_{14} alkoxy C_{14} alkyl and C_{14} alkylsulphonyl C_{14} alkyl;
- 6') C_{1.5}alkylR³⁶ wherein R³⁶ is as defined in (5') above;
- 7') C₂₋₅alkenylR³⁶ wherein R³⁶ is as defined in (5') above;
- 8') C₂₋₅alkynylR³⁶ wherein R³⁶ is as defined in (5') above;
- 9') R³⁷ wherein R³⁷ represents a pyridone group, a phenyl group or a 5-6-membered aromatic heterocyclic group, linked via carbon or nitrogen, with 1-3 heteroatoms selected from O, N and S, which pyridone, phenyl or aromatic heterocyclic group may carry up to 5 substituents on an available carbon atom selected from hydroxy, halogeno, amino, C₁₋₄alkyl, C₁₋₄alkoxy,

10/088,814 03/02/2006 11/04/2005

 C_{1-4} hydroxyalkyl, C_{1-4} aminoalkyl, C_{1-4} alkylamino, C_{1-4} hydroxyalkoxy, carboxy, trifluoromethyl, cyano, -CONR³⁸R³⁹ and -NR⁴⁰COR⁴¹, wherein R³⁸, R³⁹, R⁴⁰ and R⁴¹, which may be the same or different, each represents hydrogen, C_{1-4} alkyl or C_{1-3} alkoxy C_{2-3} alkyl;

- 10') C_{1-5} alkyl R^{37} wherein R^{37} is as defined in (9') above;
- 11') C₂₋₅alkenylR³⁷ wherein R³⁷ is as defined in (9') above;
- 12') C₂₋₅alkynylR³⁷ wherein R³⁷ is as defined in (9') above;
- 13') $C_{1.5}$ alkylX⁶R³⁷ wherein X⁶ represents -O-, -S-, -SO-, -SO₂-, -NR⁴²CO-, -CONR⁴³-, -SO₂NR⁴⁴-, -NR⁴⁵SO₂- or -NR⁴⁶-, wherein R⁴², R⁴³, R⁴⁴, R⁴⁵ and R⁴⁶ each independently represents

hydrogen, C₁₋₃alkyl or C₁₋₃alkoxy()₂₋₃alkyl, and R³⁷ is as defined hereinbefore;

- 14') C_{2-5} alkenyl X^7R^{37} wherein X^7 represents -O-, -S-, -SO-, -SO₂₇, -NR⁴⁷CO-, -CONR⁴⁸-,
- $-SO_2NR^{49}$ -, $-NR^{50}SO_2$ or $-NR^{51}$ -, wherein R^{47} , R^{48} , R^{49} , R^{50} and R^{51} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl, and R^{97} is as defined in (9') above;
- 15') C_{2-s}alkynylX⁶R³⁷ wherein X⁸ represents -O-, -S-, -SO-, -SO₂-, -NR⁵²CO-, -CONR⁵³-,
- $-SO_2NR^{54}$ -, $-NR^{56}SO_2$ or $-NR^{56}$ -, wherein R^{52} , R^{53} , R^{54} , R^{65} and R^{66} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl, and R^{37} is as defined hereinbefore;
- 16') C₁₋₃alkylX⁹C₁₋₃alkylR³⁷ wherein X⁹ represents -O-, -S-, -SO-, -SO₂-, -NR⁵⁷CO-, -CONR⁵⁸-,
- $-SO_2NR^{69}$ -, $-NR^{80}SO_{2^-}$ or $-NR^{61}$ -, wherein R^{57} , R^{58} , R^{59} , R^{60} and R^{61} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl, and R^{37} is as defined hereinbefore; and
- 17') C₁₋₃alkylX⁹C₁₋₃alkylR³⁸ wherein X⁹ and R³⁶ are as defined in (5') above;
- provided that i) where R^1 , R^4 , R^7 and R^8 are all hydrogen and R^2 and R^3 are both hydrogen or both methoxy, R^{64} is other than phenyl;
- (ii) where R^1 , R^4 , R^7 and R^8 are all hydrogen and R^2 and R^3 are methoxy, and Z is C(Q), R^{64} is other than methyl; and
- iii) wherein at least one of R1-R1 is -X1R15.

21-26. (Cancelled)

27. (Previously presented) A method for preparing a compound according to claim 20, which method comprises reacting a compound of formula (VIII)

10/088,814 03/02/2006 11/04/2005

where R¹' is equivalent to the corresponding group of formula R¹ as defined in relation to the said compound of claim 20, or a precursor thereof;

 R^2 is equivalent to the corresponding group of formula R^2 as defined in relation to the said compound of claim 20, or a precursor thereof;

R^{s'} is equivalent to the corresponding group of formula R^s as defined in relation to the said compound of claim 20, or a precursor thereof;

R⁴ is equivalent to the corresponding group of formula R⁴ as defined in relation to the said compound of claim 20, or a precursor thereof;

and R⁸⁵ is a leaving group, with a compound of formula (IX')

where X, R⁷ and R⁸ are as defined in relation to the said compound according to claim 20, and R⁸⁶ is a group of formula NHZR⁶¹ where Z and R⁶⁴ as are defined in relation to the said compound in claim 20; and thereafter if desired or necessary converting a group R¹, R², R³ or R⁴ to a group R¹, R², R³ and R⁴ respectively or to a different such group.

28-29. (Cancelled)

30. (Previously presented) A pharmaceutical composition comprising a compound of formula (IIC) as defined in claim 20, or a pharmaceutically acceptable salt or an *in vivo* hydrolysable ester, or amide thereof, in combination with at pharmaceutically acceptable carrier.

Page 6 of 13

10/088,814 03/02/2006 11/04/2005

31-33. (Cancelled)

(Previously presented) A compound according to claim 20, wherein R⁸⁴ is phenyl, 34. 2-furan, (E)-CH=CH-phenyl, 3,4,5-trimethoxyphenyl, 2,4-difluorophenyl, 2-nitro-4,5-dimethoxyphenyl, 2,4-clinitrophenyl, 2-fluorobenzyl, cyclopentyl, 1-methylbut-3-enyl, n-heptyl, 2-(methylthio)ethyl, 2-ethoxyethyl, C(CH₃)=CH₂, 5-methyl-2-pyrazine, 3-furyl, 3-cyanophenyl, 4-acetoxyphenyl, 2-nítro-3-methoxyphenyl, 2-methylthiophenyl, 3-acetoxyphenyl, 2-pyridyl, 2-quinolinyl, 1,5-dimethyl-1H-pyrazolyl, 2-fluoro-5-nitrophenyl, 3-pyridyl, 2-chloro-3-pyridyl, 2-fluorophenyl, 2,3-difluorophenyl, 2,5-difluorophenyl, 2,3-dimethoxyphenyl, 3,5-dimethoxy-4-hydroxy-phenyl, 3-chloro-4-carboxyphenyl, 3-nitro-4-(methylsulphonyl)-phenyl, 3-nitro-4-methoxyphenyl, (E)-CH=CH-(2-nitrophenyl), (E)-CH=CH-(3-nitrophenyl), (E)-CH=CH-(4-nitrophenyl), (E)-CH=CH-(4-chlorophenyl), (E)-CH=CH-(2,3,4-trifluoro-phenyl), (E)-CH=CH-(3-(trifluoromethyl)phenyl), (E)-CH=CH-(4-fluorophenyl), 2-indolyl, 5-fluoro-2-indolyl, 3-fluorophenyl, 3,5-dinitrophenyl, 3-(trifluoromethyl)benzyl, 3-fluorobenzyl, 4-chlorobenzyl, 4-methoxybenzyl, 4-(iso-propyl)benzyl, 3-nitrobenzyl, 2-phenoxyethyl, 2-(3,4-dimethoxyphenyl)ethyl, 2-(4-chlorobenzoyl)ethyl, 3-phenoxy-1-propyl, 3-phenyl-1-propyl, 3-benzoylpropyl, dec-9-enyl, 1-methylbut-1-enyl, (2-thiophene)methyl, (3-thiophene)methyl, 2-(3-nitro-4-hydroxyphenyl)ethyl, 3,5-difluorobenzyl, 3,4-methylenedioxybenzyl, 2,6-difluorobenzyl, 4-(n-butoxy)benzyl, 3-methyl-1-butyl, pent-4-ynyl, 3-(5-bromo-4-methoxy)thiophene, 3-(5-chloro-4-methoxy)-thiophene, 3-methoxy-4-ethoxybenzyl, 4-(benzyloxy)benzyl, 3-(2-thiophene)propyl, hex-5-ynyl, 1-(4-chlorophenyl)cyclopropyl, cyclopentylmethyl, 2-(cyclopentyl)ethyl, cyclohexylmethyl, 2-(cyclohexyl)ethyl, 3-(cyclohexyl)propyl, 1-phenoxyi₃thyl, (E)-C(CH₃)=CH-phenyl, 2-chloro-5-nitrophenyl, methyl, n-heptyl, 2-furyl, 3-furyl, (2-thiopnene)methyl, 2-indolyl, 2,4-difluorophenyl, (3-nitro-4-(methylsulphonyl))-phonyl, pent-4-ynyl, 5-methyl-2-pyrazinyl, cyclopentyl, 3-nitro-4-methoxyphenyl, 2-tetrahydrofuryl, 2-pyridyl, 3-pyridyl, 1,5-dimethyl-pyrazol-3-yl, cyclobutyl, 2-methoxyphenyl, 3-nitrophenyl, 4-nitrophenyl, cyclohexyl, 3-nitro-4-methylphenyl, 3-nitro-4-fluorophenyl, (3-thiophene)methyl, 3-chloro-2-benzothiophene, 5-chloro-2-indolyl, but-3-ynyl, 3-cyanophenyl, 2-(acetamido)ethyl, 4-(trifluoromethyl)phenyl, 3-chloro-4-fluorophenyl, 4-fluoro-3-(trifluoromethyl)-pher yl, 4-fluorophenyl, 5-bromo-2-thiophene, 4-methoxyphenyl, 6-methyl-3-pyridyl, 5-nitro-2-funyl, 2-nitrophenyl, (E)-CH=CH-(3-chlorophenyl), 2-thiophene, cyclopropyl, 3-methylphenyl, 2-chlorophenyl, 2-fluorophenyl, 2,5-dichlorophenyl, 3-fluorophenyl, 6-chloro-3-pyridyl, 5-bromo-2-furyl, 3-nitro-2-methylphenyl, 3-chlorophenyl, 3-(tetrahydrothiophene-1-1'-dioxide)methyl, 2-methoxyethyl or 2-(methylthio)phenyl.

Page 7 of 13

10/088,814 03/02/2006 11/04/2005

- 35. (Previously presented) A compound according to claim 20, where R⁶⁴ is phenyl or halosubstituted phenyl.
- 36. (Previously presented) A compound according to claim 20, where R^1 is hydrogen and R^4 is halo, C_{1-4} alkyl or C_{1-4} alkoxy.
- 37. (Previously presented) A compound according to claim 20, where X1 is oxygen.
- 38. (Previously presented) A compound according to claim 20, where R¹⁵ is selected from a group (1'), (3'), (6') or (10') as defined in claim 20.
- 39. (Previously presented) A compound according to claim 20, where R^7 and R^8 are independently selected from hydrogen, halo, C_{1-4} alkoxy, cyano, trifluoromethyl or phenyl.
- 40. (Previously presented) An *in vivo* hydrolysable ester of a compound according to claim 20, which is a phosphate ester.
- 41. (Previously presented) A compound according to claim 20 where R^1 is hydrogen, R^4 is halo, C_{1-4} alkyl or C_{1-4} alkoxy, X^1 is oxygen, R^{15} is selected from a group (1'), (3'), (6') or (10') as defined in claim 20 and R^7 and R^8 are independently selected from hydrogen, halo, C_{1-4} alkoxy, cyano, trifluoromethyl or phenyl.
- 42. (Previously presented) A. compound according to claim 41 where R⁶⁴ is phenyl or halosubstituted phenyl.
- 43. (Previously presented) A compound according to claim 34 wherein R^1 is hydrogen, R^4 is halo, $C_{1\rightarrow}$ alkyl or $C_{1\rightarrow}$ alkoxy, X^1 is oxygen, R^{15} is selected from a group (1'), (3'), (6') or (10') as defined in claim 20 and R^7 and R^8 are independently selected from hydrogen, halo, $C_{1\rightarrow}$ alkoxy, cyano, trifluoromethyl or pheny.
- 44. (Previously presented) 4 method of treating colorectal or breast cancer in a warm blooded animal in need of such treatment, which comprises administering to said animal an effective amount of a compound of formula (IC), as claimed in claim 20.

Page 8 of 13